

**ABSTRACT:**

A modular workbench assembly is presented that provides the user with an infinite number of potential workbench configurations with varying quantities of lower shelf sets, drawer sets, and upper shelf sets. This invention allows economical continual workbench lengthwise expansion by featuring a unique leg assembly and a unique upper shelf assembly that permit a specified number of dimensional lumber pieces to span and fasten to its top surface, or allows the fastening of twice as many dimensional lumber pieces forming a butt joint at the central vertical axis of both the leg assembly and the upper shelf assembly. The leg vertical member of U-shaped cross section features a pair of outward and opposite lengthwise protruding flanges and features a pair of adjacent lateral mounting surfaces so that lateral members, lengthwise members and upward members can be installed simultaneously using a unique, common interlocking fastening scheme which prevents the members from becoming loose under a vibration environment. A unique upper shelf assembly is presented that snaps into place on a leg assembly and is fully adjustable. The upper shelf assembly permits installation of additional structural members onto the leg assembly without removal of the upper shelf assembly from the leg assembly. A universal drawer rail assembly is presented that enables quick and sturdy assembly that is fully interchangeable as either a left drawer rail or a right drawer rail.

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A modular workbench assembly is presented that provides the user with an infinite number of potential workbench configurations with varying quantities of lower shelf sets, drawer sets, and upper shelf sets. This invention allows economical continual workbench lengthwise expansion by featuring a unique leg assembly and a unique upper shelf assembly that permit a specified number of dimensional lumber pieces to span and fasten to its top surface, or allows the fastening of twice as many dimensional lumber pieces forming a butt joint at the central vertical axis of both the leg assembly and the upper shelf assembly. The leg vertical member of U-shaped cross section features a pair of outward and opposite lengthwise protruding flanges and features a pair of adjacent lateral mounting surfaces so that lateral members, lengthwise members and upward members can be installed simultaneously using a unique, common interlocking fastening scheme which prevents the members from becoming loose under a vibration environment. A unique upper shelf assembly is presented that snaps into place on a leg assembly and is fully adjustable. The upper shelf assembly permits installation of additional structural members onto the leg assembly without removal of the upper shelf assembly from the leg assembly. A universal drawer rail assembly is presented that enables quick and sturdy assembly that is fully interchangeable as either a left drawer rail or a right drawer rail.

surface of the said cross section, said extension brackets located toward each end of the said channel; said extension brackets each containing three surfaces, two that are parallel to each other and a connecting surface; said extension brackets containing a pair of installed shoulder rivets on a surface outboard and parallel to the said welded surface of the extension bracket; said shoulder rivets enable the rail assembly to be attached to a leg vertical member by placing the said shoulder rivets into a teardrop shaped hole pattern on the said vertical leg; said extension bracket sized in length between its said welded surface and the said outboard parallel surface to provide sufficient spacing such that the side of a drawer will not contact the outboard edge of a vertical leg member; said rail assembly be fully interchangeable for use on the right side or left side of a drawer.

7. A J-shaped cross section channel as in claim 6, further comprising:

the addition of holes on the longest surface of said cross section that accept a pair of pins when the said channel is assembled as part of a drawer rail assembly; said forward located pin acting as a drawer stop contacting the rear inboard surface of a drawer to stop outward drawer motion, and said rear located pin acting as a drawer stop contacting the rear outboard surface of a drawer to stop inward drawer motion; said rail assembly be fully interchangeable for use on the right side or left side of a drawer.

8. A plastic injected drawer with a 360 degree lip located around its top surface, and stiffening protrusions that extend the full height of the drawer on the forward and rear surfaces of the drawer, and stiffening protrusions that extend from the bottom of the drawer to a specified distance less than the top of the drawer on the drawer side surfaces; said distance permits clearance of an installed pin on a rail assembly that acts as a draw stop.